

antennas, said plurality of subcarrier signals comprising a plurality of data that are code division multiplexed and frequency division multiplexed;

A2 a detector that, on a per subcarrier basis, detects an amplitude level of said radio signal received through said plurality of antennas;

CONT a selector that, on a per subcarrier basis, makes a comparison of the detected amplitude levels and selects one of said antennas through which said radio signal gains a largest amplitude level; and

a despreader that, on a per subcarrier basis, despreads said radio signal received through the selected antenna with a predetermined spreading code.

8. The radio communication apparatus according to claim 7, further comprising:

a spreader that spreads a plurality of data with different spreading codes to produce spread data;

a first multiplexer that code division multiplexes the spread data to produce code division multiplexed data;

a divider that divides the code division multiplexed data on a per chip basis to produce data divided on a per chip basis;

A2 a second multiplexer that assigns the data divided on a per chip basis to respective transmit subcarrier signals and frequency division multiplexes said data divided on a per chip basis to produce frequency division multiplexed data; and

a transmitter that transmits a transmit radio signal through said plurality of antennas, said transmit radio signal comprising said frequency division multiplexed data, wherein:

said second multiplexer assigns said data divided on a per chip basis to said transmit subcarrier signal transmitted through the antenna selected by said selector.

CONT 9. The radio communication apparatus according to claim 8, further comprising:

a calculator that, on a per subcarrier basis, calculates a ratio between an amplitude level of said subcarrier signal received through said antenna selected by said selector and an average value of amplitude levels of said subcarrier signals; and

a mathematical divider that, on a per subcarrier basis, divides the data divided on a per chip basis by said ratio.

10. The radio communication apparatus according to claim 9, further comprising a comparator that, in accordance with a comparison result between the ratio calculated by said calculator

and a threshold level, outputs the ratio to said mathematical divider when said ratio is below or equal to said threshold level, and outputs said threshold level to said mathematical divider when said ratio is above said threshold level.

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11. A radio communication apparatus comprising:

a plurality of antennas;

a receiver that receives a radio signal comprising a plurality of subcarrier signals through said plurality of antennas, said plurality of subcarrier signals comprising a plurality of data that are code division multiplexed and frequency division multiplexed;

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a combiner that, on a per subcarrier basis, diversity combines said radio signal received through said plurality of antennas to produce a diversity combined signal; and

a despreader that, on a per subcarrier basis, despreads the diversity combined signal with a predetermined spreading code.

12. A radio communication method comprising the steps of:

receiving a radio signal comprising a plurality of subcarrier signals through a plurality of antennas, said plurality of subcarrier signals comprising a plurality of data

that are code division multiplexed and frequency division multiplexed;

A2 detecting, on a per subcarrier basis, an amplitude level of said radio signal received through said plurality of antennas to produce detected amplitude levels;

comparing, on a per subcarrier basis, the detected amplitude levels and selecting one of said antennas through which said radio signal gains a largest amplitude level; and

despreading, on a per subcarrier basis, said radio signal received through the selected antenna with a predetermined spreading code.

CONT 13. A radio communication method comprising the steps of:
receiving a radio signal comprising a plurality of subcarrier signals through a plurality of antennas, said plurality of subcarrier signals comprising a plurality of data that are code division multiplexed and frequency division multiplexed;

diversity combining, on a per subcarrier basis, said radio signal received through said plurality of antennas to produce a diversity combined signal; and

despreading, on a per subcarrier basis, the diversity combined signal with a predetermined spreading code.

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14. A radio communication method comprising the steps of:
receiving a radio signal comprising a plurality of
subcarrier signals through a plurality of antennas, said
plurality of subcarrier signals comprising a plurality of data
that are code division multiplexed and frequency division
multiplexed; and
performing diversity processing of the received radio signal
on a per subcarrier basis.--

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